

Amendments to the Claims:

1-56. (CANCELED).

57. (NEW) A method of using a dual head injector, the method comprising:

mounting a first syringe that is prefilled with contrast media to the injector;

mounting a second syringe to the injector;

coupling a first section of Y-tubing to the first syringe;

coupling a second section of the Y-tubing to the second syringe;

initiating a programmed purge protocol of the injector while the first and second syringes are mounted to the injector and while the first and second sections of the Y-tubing are coupled to the first and second syringes, respectively, wherein the programmed purge protocol comprises:

advancing a first plunger drive ram of the injector to move a plunger of the first syringe a first predetermined distance, wherein the advancing of the first plunger drive ram is sufficient to purge all air from the first syringe and the first section of Y-tubing and fill the first section of the Y-tubing with contrast media; and

advancing a second plunger drive ram of the injector to move a plunger of the second syringe a second predetermined distance, wherein the advancing of the second plunger drive ram is sufficient to purge all air from the second section of the Y-tubing; and

initiating a programmed injection procedure that includes injecting contrast media into the patient, wherein the programmed injection procedure occurs:

after the programmed purge protocol is completed;

while the first and second syringes are mounted to the injector; and

while the first and second sections of the Y-tubing are coupled to the first and second syringes, respectively.

58. (NEW) The method of claim 57, wherein a combination of the advancing of the first plunger drive ram and the advancing of the second plunger drive ram results in a purge of substantially all air from the first and second syringes and the Y-tubing.

59. (NEW) The method of claim 57, wherein the advancing of the first plunger drive ram occurs before the advancing of the second plunger drive ram.

60. (NEW) The method of claim 57, wherein the advancing of the second plunger drive ram comprises filling the second section of the Y-tubing with saline.

61. (NEW) The method of claim 57, wherein the advancing of the second plunger drive ram comprises filling the second section and a third section of the Y-tubing with saline.